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graph TD; In1[ ] --> 101[RECEIVE DATA]; In2[ ] --> 101; In3[ ] --> 101; 101 --> 102[ARRANGE DATA IN A MIXED FORMAT LAYOUT]; 102 --> 104[VARIABLE-SIZED FIELD]; 102 --> 103[FIXED-SIZED FIELD]; 104 --> 106[COMPRESS VARIABLE-SIZED FIELD]; 106 --> Out1[ ]; 106 --> Out2[ ]; 106 --> Out3[ ]; 103 --> 105[COMPRESS FIXED-SIZED FIELD]; 105 --> Out4[ ]; 105 --> Out5[ ]; 105 --> Out6[ ]; Out1 --- Out4; Out2 --- Out5; Out3 --- Out6;
```

Flowchart illustrating the data compression method according to the first embodiment:

- 101: RECEIVE DATA (Input from three sources)
- 102: ARRANGE DATA IN A MIXED FORMAT LAYOUT (Processes data from 101 and branches to 103 and 104)
- 103: FIXED-SIZED FIELD (Processes data from 102)
- 104: VARIABLE-SIZED FIELD (Processes data from 102)
- 105: COMPRESS FIXED-SIZED FIELD (Processes data from 103)
- 106: COMPRESS VARIABLE-SIZED FIELD (Processes data from 104)
- Output: COMPRESSED DATA (Result of compression from 105 and 106)



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FIG. 2

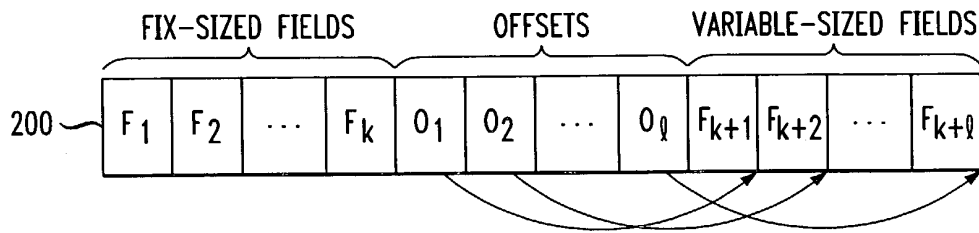


FIG. 3

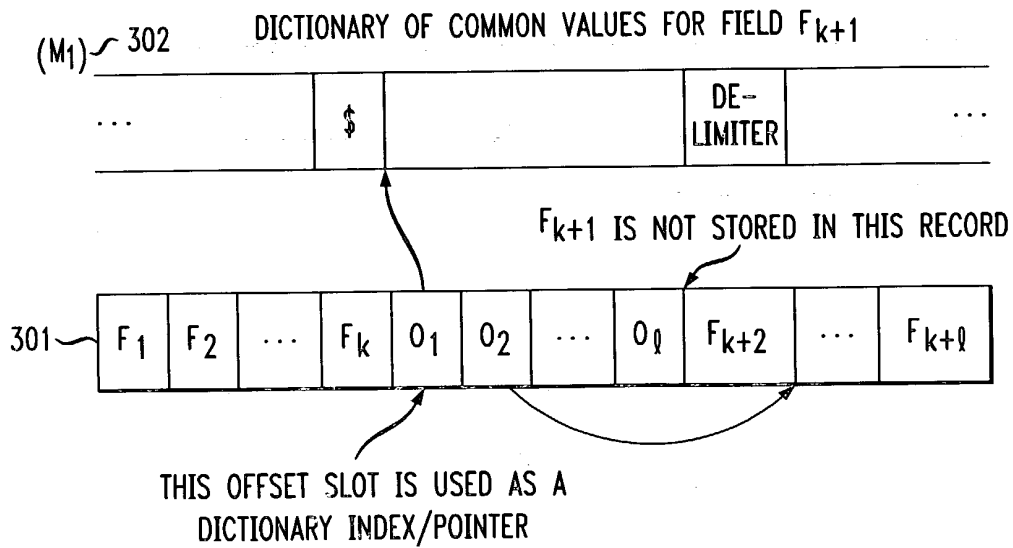




FIG. 4

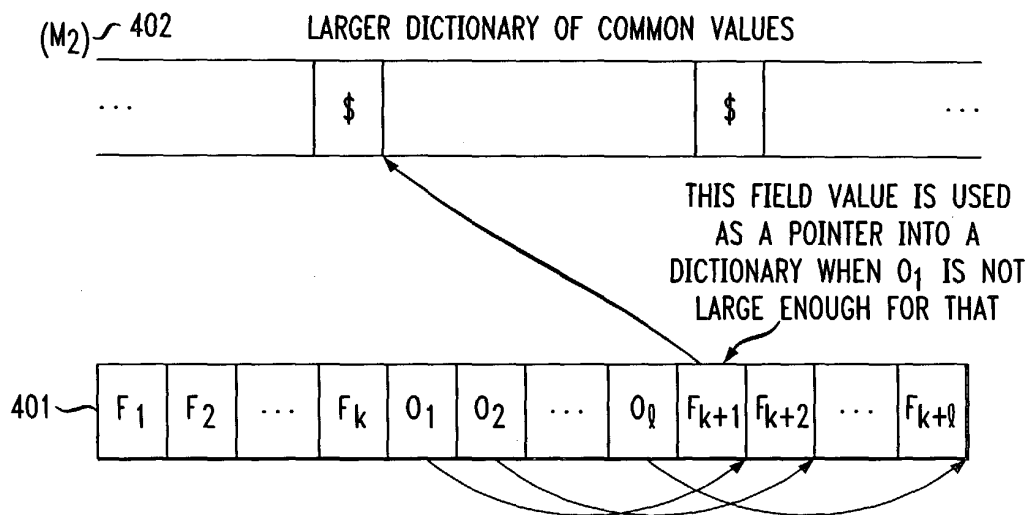
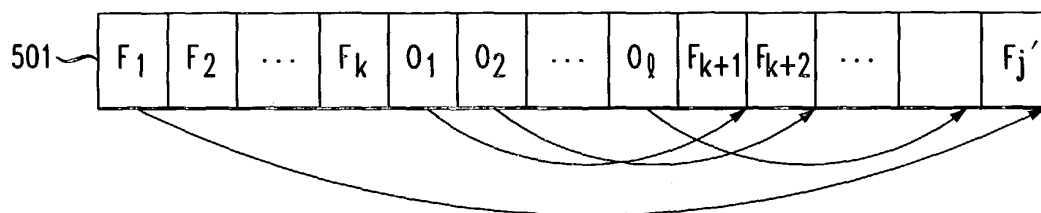


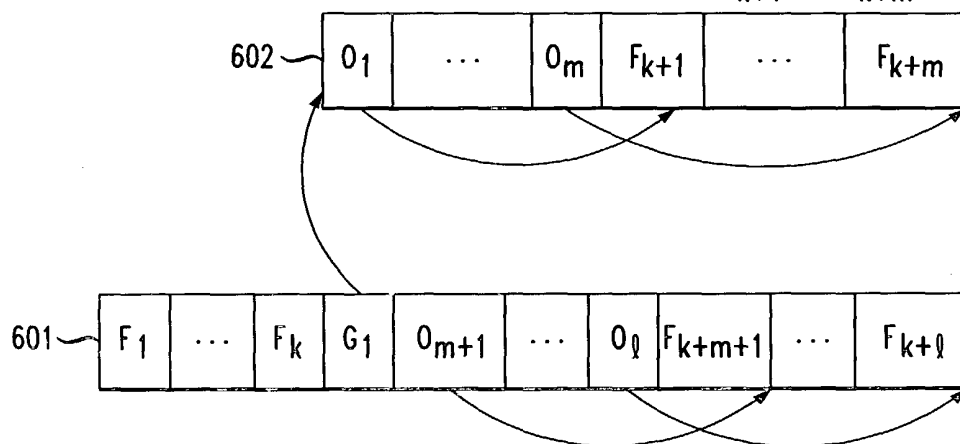
FIG. 5

IN EXCEPTIONALLY LARGE VALUE F_1' FOR F_1 IS STORED AS AN EXTRA VARIABLE-SIZED FIELD. F_1 , THE FIXED SLOT FOR IT, IS USED TO STORE THE OFFSET POINTER TO TERMINATE F_1' .



**FIG. 6**

IN A DICTIONARY OF COMMON TUPLES, LAYOUT FOR
THE GROUP OF FIELDS F_{k+1} , F_{k+m}





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FIG. 7

